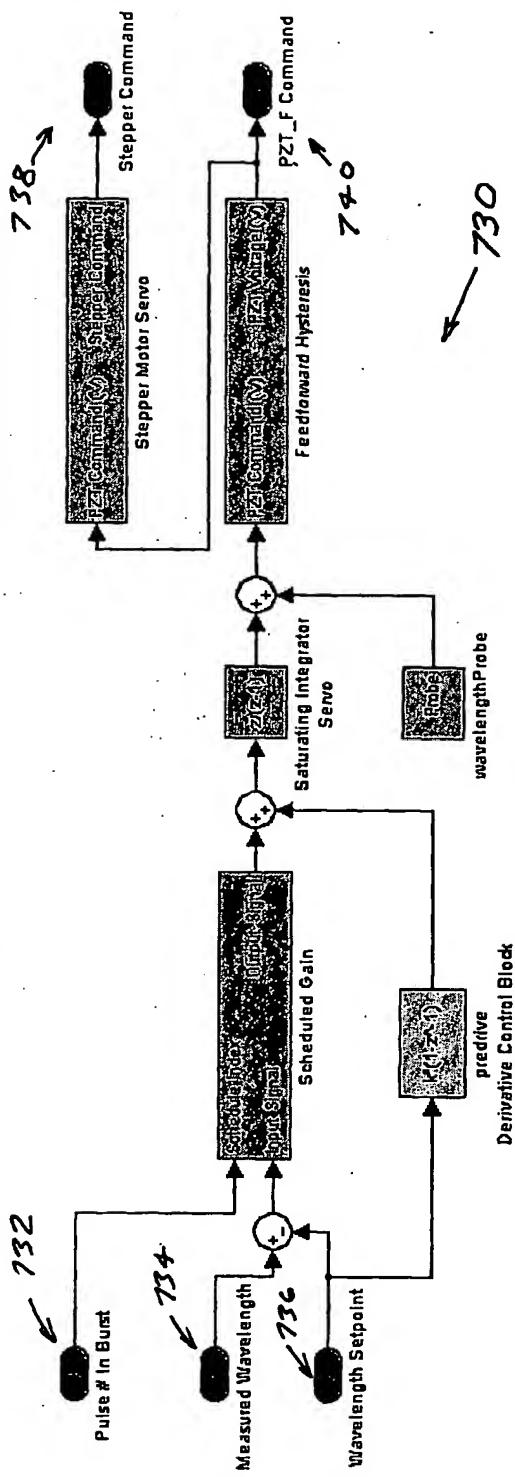


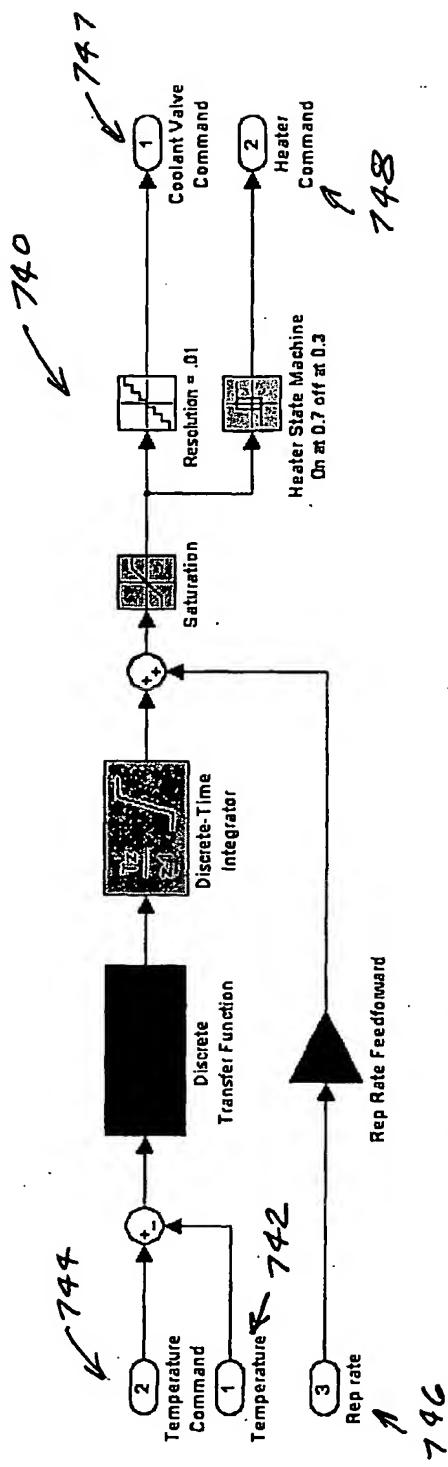
Wavelength Control Algorithm



- Inputs: measured wavelength, target wavelength, pulse number in burst
- Outputs: stepper command and PZT voltage command
- Measured wavelength received from LAM, actuator commands sent to LNCM

FIG. 12

Gas Temperature Control Algorithm



- Inputs: measured temperature, temperature command, average repetition rate
- Outputs: coolant value command, heater command
- Two independent, identical loops for the two chambers
- Measured temperature is received from CAN I/O clusters, valve and heater commands are sent to CAN I/O clusters
- The loop executes at 10Hz

F/G. 13